| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 13 | (yaw near3 rate) same (rack near3 sensor) | US-PGPUB; USPAT | OR | ON | 2005/12/21 15:56 |
| L2 | 1 | (yaw near3 rate) same (rack near3 force) | US-PGPUB; USPAT | OR | ON | 2005/12/21 15:57 |
| L3 | 2 | (rack near3 force) near4 signal same equivalent | US-PGPUB; USPAT | OR | ON | 2005/12/21 15:57 |
| L4 | 30 | ("4800974" \| "4860844" \| "5228757" \| "5251135" \| "5257828" \| "5347458" \| "5374877" \| "5475289" \| "5576957" \| "5653304" \| "5668722" \| "5740040" \| "5828972" \| "5829547" \| "5925083" \| "6018691" \| "6097286" \| "6098296" \| "6102151" \| "6152254" \| "6176341" \| "6179394" \| "6208923" \| "6219604" \| "6244372" \| "6279674" \| "6279675" \| "6283243" \| "6285936" \| "6285963"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 15:58 |
| S1 | 66 | (steer$3 near3 resist$3 near4 torque) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:13 |
| S2 | 110 | (steer$3 near3 feedback$3 near4 torque) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:13 |
| S3 | 67 | (steer$3 same driver near3 feedback near6 torque) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:17 |
| S4 | 196 | (steer$3 same (resist$3 near3 torque)) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:18 |
| S5 | 7 | ("20020079155" \| "5568378" \| "6097286" \| "6219604" \| "6279674" \| "6363305" \| "6370460").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 17:22 |
| S6 | 52 | ("6097286").URPN. | USPAT | OR | ON | 2005/12/20 17:23 |

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|---|---|---|---|---|---|---|
| S7 | 60 | ("20020084757" \| "20020107621" \| "4800974" \| "4860844" \| "4869335" \| "4951199" \| "5001637" \| "5044956" \| "5228757" \| "5251135" \| "5257828" \| "5307892" \| "5338250" \| "5347458" \| "5374877" \| "5429548" \| "5449199" \| "5475289" \| "5513720" \| "5576957" \| "5653304" \| "5668722" \| "5704446" \| "5717590" \| "5719766" \| "5740040" \| "5765116" \| "5774819" \| "5828972" \| "5829547" \| "5890081" \| "5913375" \| "5925083" \| "5957987" \| "6018691" \| "6055467" \| "6059068" \| "6076627" \| "6079513" \| "6097286" \| "6098296" \| "6102151" \| "6152254" \| "6154695" \| "6173221" \| "6176341" \| "6179394" \| "6208923" \| "6209677" \| "6213248" \| "6219604" \| "6240350" \| "6244372" \| "6279674" \| "6279675" \| "6283243" \| "6285936" \| "6363305" \| "6370460" \| "6450287").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 17:25 |
| S8 | 7 | ("4771846" \| "5247441" \| "5347458" \| "5747950" \| "6079513" \| "6097286" \| "6176341").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 17:29 |
| S9 | 28 | ("4771846").URPN. | USPAT | OR | ON | 2005/12/20 17:30 |
| S10 | 46 | ("20010017229" \| "3765624" \| "4078749" \| "4576056" \| "4676331" \| "4708220" \| "4715462" \| "4724917" \| "4765425" \| "4802543" \| "4951199" \| "5205371" \| "5265019" \| "5322308" \| "5347204" \| "5504403" \| "5511629" \| "5704446" \| "5719766" \| "5732373" \| "5736822" \| "5796231" \| "5859774" \| "5973468" \| "6039143" \| "6085860" \| "6107767" \| "6122579" \| "6148948" \| "6176341" \| "6226579" \| "6246197" \| "6263997" \| "6325333" \| "6370459" \| "6370460" \| "6381526" \| "6407524" \| "6422335" \| "6450287" \| "6453226" \| "6496762" \| "6499559" \| "6575265" \| "6591937" \| "6625530").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 17:35 |
| S11 | 249 | ("steer-by-wire" or (steer adj2 wire)) same ((reaction or tactile or force or feedback or resist) near3 (force or torque or feedback)) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:51 |
| S12 | 0 | ("steer-by-wire" or (steer adj2 wire)) same ((reaction or tactile or force or feedback or resist) near3 (force or torque or feedback)) same (desire$2 and actual) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:49 |
| S13 | 99 | ("steer-by-wire" or (steer adj2 wire)) same ((reaction or tactile or force or feedback or resist) near3 (force or torque or feedback)) same (driver) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:37 |

| S14 | 6 | ("4860844" \| "4865144" \| "4930084" \| "5180214" \| "6370460" \| "6575263"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 17:45 |
|---|---|---|---|---|---|---|
| S15 | 6 | ("5406474" \| "5908457" \| "6097286" \| "6176341" \| "6219604" \| "6505703"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 17:46 |
| S16 | 2 | (steer$3) same ((reaction or tactile or force or feedback or resist) near3 (force or torque or feedback)) same (desire$2 and actual) | US-PGPUB; USPAT | OR | ON | 2005/12/20 18:10 |
| S17 | 4855 | ("steer-by-wire" or (steer adj2 wire) or steer$3) same ((reaction or tactile or force or feedback or resist) near3 (force or torque or feedback)) | US-PGPUB; USPAT | OR | ON | 2005/12/20 19:11 |
| S18 | 1027 | ("steer-by-wire" or (steer adj2 wire) or steer$3) same ((reaction or tactile or force or feedback or resist) near3 (force or torque or feedback)) same (feedback or feedforward) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:51 |
| S19 | 115 | ("steer-by-wire" or (steer adj2 wire) or steer$3) same ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same (feedback or feedforward) same (driver near3 wheel) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:54 |
| S20 | 1 | ("steer-by-wire" or (steer adj2 wire) or steer$3) same ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same (feedforward) same (driver near3 wheel) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:55 |
| S21 | 32 | ("steer-by-wire" or (steer adj2 wire) or steer$3) same ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same (feedforward) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:57 |
| S22 | 20 | ("steer-by-wire" or (steer adj2 wire) or steer$3) and (driver or wheel) near5 ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same feedforward | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:58 |
| S23 | 0 | ("steer-by-wire" or (steer adj2 wire) or steer$3) and (driver or wheel) near5 ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same (desired and actual) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:58 |

| S24 | 0 | ("steer-by-wire" or (steer adj2 wire) or steer$3) and (driver or wheel) near5 ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same (desired and measured) | US-PGPUB; USPAT | OR | ON | 2005/12/20 17:58 |
|---|---|---|---|---|---|---|
| S25 | 18 | ("steer-by-wire" or (steer adj2 wire) or steer$3) and (driver or wheel) near5 ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same (target and measured) | US-PGPUB; USPAT | OR | ON | 2005/12/20 18:01 |
| S26 | 119 | ("steer-by-wire" or (steer adj2 wire) or steer$3) and (driver or wheel) near5 ((reaction or tactile or force or feedback or resist) near4 (force or torque or feedback)) same (target and actual) | US-PGPUB; USPAT | OR | ON | 2005/12/20 18:11 |
| S27 | 35 | ("4830127").URPN. | USPAT | OR | ON | 2005/12/20 18:02 |
| S28 | 53 | ("5347458").URPN. | USPAT | OR | ON | 2005/12/20 18:09 |
| S29 | 2 | (("6363305") or ("6370460")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/12/20 18:09 |
| S30 | 2 | (steer$3) same ((reaction or tactile or force or feedback or resist or feel) near3 (force or torque or feedback or feel)) same (desire$2 and actual) | US-PGPUB; USPAT | OR | ON | 2005/12/20 18:11 |
| S31 | 130 | (correct$5 same (steering near3 wheel) near5 ((feel or reaction or resist or feedback) near3 (force or torque))) | US-PGPUB; USPAT | OR | ON | 2005/12/20 18:12 |
| S32 | 13 | ("4741409" \| "4860844" \| "4865144" \| "4984646" \| "5097917" \| "5201380" \| "5251135" \| "5327986" \| "5347458" \| "5828972" \| "5845222" \| "5896942" \| "5908457").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 18:15 |
| S33 | 35 | ("5908457").URPN. | USPAT | OR | ON | 2005/12/20 18:16 |
| S34 | 5 | ("5908457" \| "6148948" \| "6152255" \| "6240349" \| "6240350").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 18:18 |
| S35 | 6 | ("5406474" \| "5908457" \| "6097286" \| "6176341" \| "6219604" \| "6505703"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 18:19 |
| S36 | 157 | (steering near3 wheel) same ((resist or reaction or tactile or feedback) near4 (force or torque or resistance)) same (correct$5) | US-PGPUB; USPAT | OR | ON | 2005/12/20 19:04 |
| S37 | 29 | ("6079513").URPN. | USPAT | OR | ON | 2005/12/20 19:07 |

| S38 | 13 | ("4741409" \| "4860844" \| "4865144" \| "4984646" \| "5097917" \| "5201380" \| "5251135" \| "5327986" \| "5347458" \| "5828972" \| "5845222" \| "5896942" \| "5908457").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 19:10 |
|---|---|---|---|---|---|---|
| S39 | 1331 | (701/41,42).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/12/20 19:10 |
| S40 | 248 | (180/402).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/12/20 19:11 |
| S41 | 1527 | S39 S40 | US-PGPUB; USPAT | OR | ON | 2005/12/20 19:11 |
| S42 | 4855 | ("steer-by-wire" or (steer adj2 wire) or steer$3) same ((reaction or tactile or force or feedback or resist) near3 (force or torque or feedback)) | US-PGPUB; USPAT | OR | ON | 2005/12/20 19:11 |
| S43 | 606 | S42 and S41 | US-PGPUB; USPAT | OR | ON | 2005/12/20 19:12 |
| S44 | 67 | S43 and (feedforward or feed adj forward) | US-PGPUB; USPAT | OR | ON | 2005/12/20 19:12 |
| S45 | 47 | ("4860844" \| "4869335" \| "4951199" \| "5001637" \| "5044956" \| "5228757" \| "5251135" \| "5307892" \| "5338250" \| "5347458" \| "5374877" \| "5429548" \| "5449199" \| "5513720" \| "5576957" \| "5653304" \| "5668722" \| "5704446" \| "5717590" \| "5719766" \| "5740040" \| "5765116" \| "5774819" \| "5828972" \| "5829547" \| "5890081" \| "5913375" \| "5925083" \| "6018691" \| "6055467" \| "6076627" \| "6079513" \| "6097286" \| "6098296" \| "6102151" \| "6152254" \| "6154695" \| "6176341" \| "6179394" \| "6208923" \| "6209677" \| "6219604" \| "6240350" \| "6279674" \| "6279675" \| "6283243" \| "6285936").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/20 19:16 |
| S46 | 14 | (actual or measur$5 or sens$3 or felt) same (desir$3 or target) near5 (resist or reaction or feedback) near3 (torque or force) same (handwheel or steeringwheel or (steering adj2 wheel)) | US-PGPUB; USPAT | OR | ON | 2005/12/21 11:57 |
| S47 | 121 | (actual or measur$5 or sens$3 or felt) same (desir$3 or target) same (resist or reaction or feedback) near3 (torque or force) same (correct$3 or deviat$6) | US-PGPUB; USPAT | OR | ON | 2005/12/21 11:58 |
| S48 | 10 | ("5072803" \| "5201380" \| "5229955" \| "5347458" \| "5743351" \| "5774819" \| "5828972" \| "5908457" \| "6032755" \| "6032757").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 12:04 |

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|---|---|---|---|---|---|---|
| S49 | 26 | ("4741409" \| "4957182" \| "5065325" \| "5097917" \| "5201380" \| "5236335" \| "5247441" \| "5327986" \| "5440487" \| "5528497" \| "5549173" \| "5554969" \| "5636703" \| "5652487" \| "5653304" \| "5767642" \| "5810108" \| "5828972" \| "5845222" \| "5862878" \| "5884724" \| "5893427" \| "5908457" \| "6047788" \| "6059068" \| "6176341").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 12:09 |
| S50 | 1 | ("6250419").PN. | US-PGPUB; USPAT | OR | OFF | 2005/12/21 12:12 |
| S51 | 1 | ("5845222").PN. | US-PGPUB; USPAT | OR | OFF | 2005/12/21 12:12 |
| S52 | 5 | ("3580352" \| "4984646" \| "5236335" \| "5251135" \| "5299648").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 12:19 |
| S53 | 27 | ("6059068").URPN. | USPAT | OR | ON | 2005/12/21 12:20 |
| S54 | 17 | ("4830127" \| "4896754" \| "5251135" \| "5354488" \| "5573088" \| "5598908" \| "5709281" \| "5732791" \| "5761627" \| "5919241" \| "5967273" \| "6059068" \| "6089115" \| "6138788" \| "6183386" \| "6283859" \| "6389343").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 12:23 |
| S55 | 40 | ("5251135").URPN. | USPAT | OR | ON | 2005/12/21 12:25 |
| S56 | 20 | ("4741409" \| "4830127" \| "4860844" \| "4865144" \| "5228757" \| "5247441" \| "5251135" \| "5347458" \| "5511629" \| "5709281" \| "5828972" \| "5880367" \| "5925083" \| "6097286" \| "6098296" \| "6112844" \| "6176341" \| "6213248" \| "6219604" \| "6547029").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 12:25 |
| S57 | 60 | ("20020084757" \| "20020107621" \| "4800974" \| "4860844" \| "4869335" \| "4951199" \| "5001637" \| "5044956" \| "5228757" \| "5251135" \| "5257828" \| "5307892" \| "5338250" \| "5347458" \| "5374877" \| "5429548" \| "5449199" \| "5475289" \| "5513720" \| "5576957" \| "5653304" \| "5668722" \| "5704446" \| "5717590" \| "5719766" \| "5740040" \| "5765116" \| "5774819" \| "5828972" \| "5829547" \| "5890081" \| "5913375" \| "5925083" \| "5957987" \| "6018691" \| "6055467" \| "6059068" \| "6076627" \| "6079513" \| "6097286" \| "6098296" \| "6102151" \| "6152254" \| "6154695" \| "6173221" \| "6176341" \| "6179394" \| "6208923" \| "6209677" \| "6213248" \| "6219604" \| "6240350" \| "6244372" \| "6279674" \| "6279675" \| "6283243" \| "6285936" \| "6363305" \| "6370460" \| "6450287").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 12:50 |

| S58 | | 4 | ("6013994"\|"6219604"\|"6250419"\|"6499559").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/12/21 12:50 |